

## Product Data Sheet

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Product Name: Kisspeptin 13 TFA

Cat. No.: GC74362

### Chemical Properties

Cas. No.

Formula  $C_{78}H_{107}N_{21}O_{18}.xC_2HF_3O_2$  M.Wt 1626.81 (free base)

Solubility  $H_2O$  : 25 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

LPNYNWNSFGLRF-NH<sub>2</sub> (TFA salt)

### Background

Kisspeptin 13 TFA is the TFA salt form of Kisspeptin 13 . Kisspeptin-13 TFA inhibits glucose-induced insulin secretion with an IC<sub>50</sub> of 1.2 nM. Kisspeptin 13 TFA activates the pothalamic-pituitary-adrenal

**Caution: Product has not been fully validated for medical applications. For research use only.**

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(HPA) axis, causes perthermia, motor behavior and anxiety in rats. Kisspeptin 13 TFA interacts with  $\alpha$ 2-adrenergic and 5-HT2 serotonin receptors, exhibits antidepressant efficacy. Kisspeptin 13 TFA is an activator for GPR54 and GnRH receptor, which enhances memory and can be used in Alzheimer's disease research.

### References:

- [1]. Jiang JH, et al. Kisspeptin-13 enhances memory and mitigates memory impairment induced by A $\beta$ 1-42 in mice novel object and object location recognition tasks. *Neurobiol Learn Mem.* 2015 Sep;123:187-95.
- [2]. Silvestre RA, et al., Kisspeptin-13 inhibits insulin secretion without affecting glucagon or somatostatin release: study in the perfused rat pancreas. *J Endocrinol.* 2008 Feb;196(2):283-90.
- [3]. Csabafi K, et al., Effects of kisspeptin-13 on the pothalamic-pituitary-adrenal axis, thermoregulation, anxiety and locomotor activity in rats. *Behav Brain Res.* 2013 Mar 15;241:56-61.
- [4]. Tanaka M, et al., Neurotransmissions of antidepressant-like effects of kisspeptin-13. *Regul Pept.* 2013 Jan 10;180:1-4.

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